

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



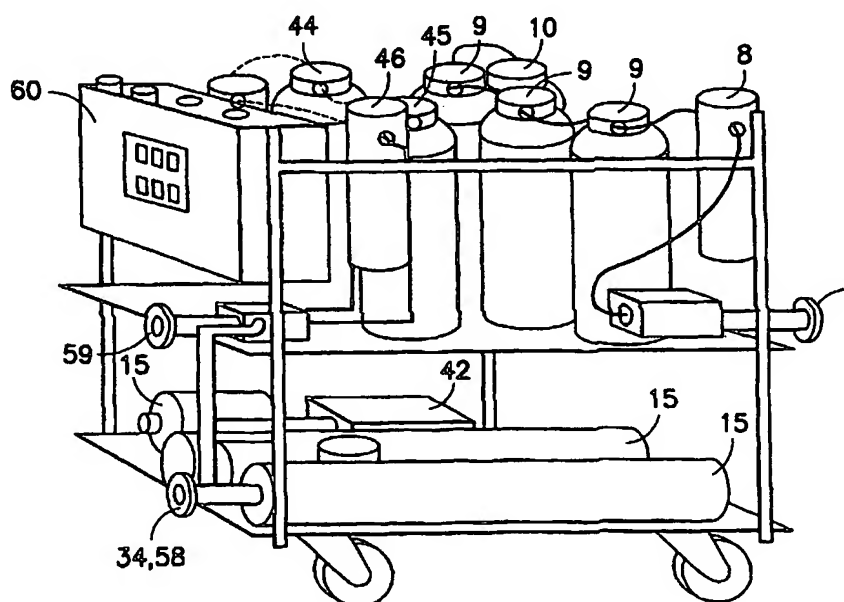
(43) International Publication Date
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number
WO 2004/009495 A2

- (51) International Patent Classification⁷: **C02F**
- (21) International Application Number: PCT/US2003/021734
- (22) International Filing Date: 14 July 2003 (14.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/396,315 17 July 2002 (17.07.2002) US
- (71) Applicant (for all designated States except US): **ARION WATER, INC.** [US/US]; 67 Willow Avenue, Hyannis, MA 02601 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **LIVINGSTON, Robert, C.** [US/US]; 67 Willow Avenue, Hyannis, MA 02601 (US).
- (74) Agents: **RZUCIDLO, Eugene, C.** et al.; Greenberg Traurig, LLP, 885 Third Avenue, New York, NY 10022 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PORTABLE, COMPACT, ULTRA-HIGH PURITY WATER SYSTEM VIA DIRECT PROCESSING FROM CITY FEED WATER



(57) Abstract: The present invention relates to a water purification system. This system is portable, compact and produces ultra higher purity water. The system is suitable for use with direct processing from city feed water.